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Extraction of poppy plants and mixtures of different drug plants with poppy-seed by means of supercritical and Soxhlet methods. Then [redacted]; Illes, Vendel; Daoud, Hussein; Szalai, Otto; Vertalan, Lorant; Szentmihalyi, Klara. Vegyipari Muveletek Tansz. [redacted] Extraction of poppy plants of different maturity and that of 40-60 proportion mixtures of garden sage, chamomile flower and marigold with poppy-seed has been studied in a flow through extraction equipment at 35 C and 250 and 300 bar pressures using CO₂ solvent as well as in conventional (Soxhlet) e, Veszprem, Hung. Olaj, Szappan, Kozmet. (2000), 49(Kulonszam), 33-39. CODEN: OSZKAT ISSN: 0472-8602. Journal written in Hungarian. CAN 134:61317 AN 2000:713713 CAPLUS (Copyright 2001 ACS)

Abstract

Extn. of poppy plants of different maturity and that of 40-60 proportion mixts. of garden sage, chamomile flower and marigold with poppy-seed has been studied in a flow through extn. equipment at 35° and 250 and 300 bar pressures using CO₂ solvent as well as in conventional (Soxhlet) extn. equipment using hexane solvent. The fatty acid compn., the essential oil content, the total alkaloid content, the tocopherol and β -sitosterol content of the extd. fatty oil samples have been detd. The object of the research was the investigation of the alkaloid producing poppy plant, of the green capsule, of the seedling and of the fatty oil fraction from the poppy-seed. It has been also examd. in which degree the valuable alkaloids can be extd. under supercrit. conditions from the green capsule and seedling samples using auxiliary solvent. Question is if the oil of the poppy-seed facilitates the dissoln. of the bio-active substances of the studied drug plants during the prodn. of fatty oils enriched with natural medicinal substances. The authors could get 36,4 g/100 g seed max. oil yield from the ground, ripened poppy-seed. From ripening capsule 26,5 g/100 g value was found. After defatting the green capsule has been extd. with 96% alc. auxiliary solvent and the ext. contained 0,98% alkaloid expressed in morphine. The poppy oil dissolves the essential oil of the garden sage providing arom. oil with pleasant fragrance, white from the flower of the chamomile the matricide could be detected. The vegetable pigments.(carotenoids, xanthophyll derivs.) were easily extd. with poppy oil.

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